CLAIMS

1. (Currently Amended) Electronic spectacles, especially night-vision spectacles (10) comprising:

an electronic camera (26) integrated into the <u>said</u> spectacles as the primary recording means for the user of the <u>said</u> spectacles, the <u>said</u> camera being provided with an objective lens and a CCD sensor;

an image-processing unit (48), which is connected downline from the <u>said</u> camera (26) and which electronically processes the <u>an</u> image recorded by the <u>said</u> camera (26) and sends an output signal to display means (28, 39 <u>30</u>), one of which is assigned to each eye, for reproduction of the an image; and

an eyepiece lens (32, 34), one of which is connected downline from each display means (28, 30)[[,]];

characterized in that

said image-processing unit includes a digitized preamp stage which removes noise and interference in the near-infrared range approximately at wavelengths of 650-1200 nm from said signal coming from said camera (26);

said preamp stage is followed by a digital/analog converter, said signal subjected to further processing as an analog signal at the standard PAL level of 1V peak-to-peak;

the <u>said</u> camera (26), the <u>said image-processing unit</u>, <u>said</u> display means (28, 30), and the <u>said</u> eyepiece lens (32, 34) are designed to work together in such a way that the dimensions of the generate a displayed image which the user

detects during use correspond to the accurately represents in real time relationships and accurate dimensions of objects which the user would see in a direct view without restriction.

- 2. (Currently amended) Electronic spectacles according to Claim 1, characterized in that, when the user's eyes are in a certain base position, namely, a position corresponding to a straight-ahead view, the center axis of the display means (28, 30), the optical axis of the said eyepiece lens (32, 34), and the associated axis of the user's eye are aligned concentrically with each other.
- 3. (Currently amended) Electronic spectacles according to Claim 1, characterized in that, to guarantee that the user will see a sharp image, the each of said eyepiece lens lenses (32, 34) of one each of said display means (28, 30) is independently designed to be adjustable along the optical axis relative to that each said respective display means (28, 30) and in particular to be adjustable independently of the eyepiece lens (32, 34) of the other display means (28, 30).
- 4. (Previously presented) Electronic spectacles according to Claim 1, characterized in that each display means (28, 30) is provided with two cameras (26) and two image-processing units (48), the processing steps of which are synchronized with each other.
- 5. (Original) Electronic spectacles according to Claim 4, characterized in that the optical axes of the camera (26) are concentric to the ocular axes of the user in the base position.
 - 6. (Previously presented) Electronic spectacles according to Claim 1,

characterized in that the display means (28, 30) are mounted in a fixed carrier (24) and are supported so that they can shift laterally in the carrier (24) with respect to the orientation of the ocular axes, where the carrier (24) is fixed in place in the spectacle frame (12).

- 7. (Original) Electronic spectacles according to Claim 6, characterized in that the objective lens and the image-processing unit (48) are mounted in the carrier (24) in such a way that the fixed carrier (24) ensures that all of the parts mounted on the carrier (24) are in a predetermined relationship to each other.
 - 8. Cancelled.
- 9. (Previously presented) Electronic spectacles according to Claim 1, characterized in that the camera (26) has a CCD sensor for the night-vision range with a sensitivity for wavelengths in the range of 500-1200 nm.
- 10. (Currently amended) Electronic spectacles according to Claim 8, characterized in that the camera (26) is designed for available operable at light levels of less than 0.001 lux, especially for a level of 0.0002 lux, without the need for additional lighting.
- 11. (Previously presented) Electronic spectacles according to Claim 1, characterized in that the CCD sensor has an image resolution of at least 790 x 590.
- 12. (Previously presented) Electronic spectacles according to Claim 1, characterized in that the display means (28, 30) is designed for black-and-white images, especially for the display of 256 shades of gray.

13-14. (Cancelled)

- 15. (Currently amended) Electronic spectacles according to Claim 1, characterized in that the image-processing unit (48) has two series-connected analog amplifier stages and a control voltage circuit, which calibrates the amplifier stages to zero each time an image pixel is read out [[-]] on a line-by-line basis , for example, [[-]] from the CCD sensor of the camera (26) to guarantee clean signal processing and readout, noise also being suppressed.
- 16. (Original) Electronic spectacles according to Claim 15, characterized in that the amplifier stages provide a signal amplification of more than 25 dB, especially of 52 dB, versus the standard level.
- 17. (Previously presented) Electronic spectacles according to Claim 15, characterized in that the amplifier stages have an external circuit, which, with respect to its design and scaling, is optimized for the amplification and transmission of signals containing image data in the black/white range.
- 18. (Previously presented) Electronic spectacles according to Claim 15, characterized in that the amplifier stages are provided with a closed-loop controller for the range from 5 to 52 dB, which modulates the amplifiers during rapid changes in brightness in such a way that the image is not noticeably overexposed, where in particular the controller is designed to be activated manually.
- 19. (Currently amended) Electronic spectacles according to one of Claim
 15, characterized in that the amplifier stages are provided with a manually actuated open-loop controller, which the user can use to adjust the sensitivity of the amplifiers and thus adapt the system to the prevailing lighting conditions and/or to

the specific purpose.

20. (Canceled)

21. (Currently amended) Electronic spectacles according to Claim 14, characterized in that, to improve the quality of the image, at least two active signal filters in the form of bandpass filters (54) are connected downline from the digital/analog converter, which filters and reduces image noise and the false-color components.

Claims 22-29 (Canceled)